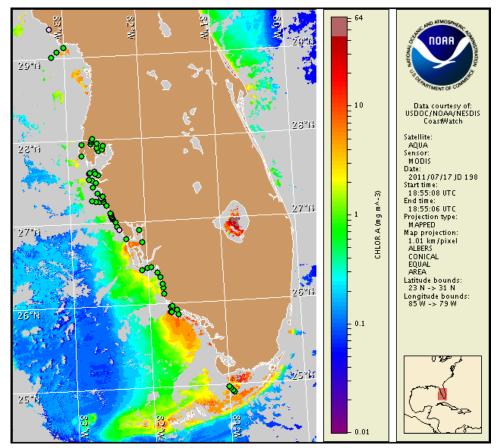


## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida Monday, 18 July 2011 NOAA Ocean Service NOAA Satellite and Information Service NOAA National Weather Service Last bulletin: Monday, July 11, 2011



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from July 8 to 14 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs\_bulletin\_guide.pdf

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive: http://tidesandcurrents.noaa.gov/hab/bulletins.html

## **Conditions Report**

There is currently no indication of a harmful algal bloom at the coast in southwest Florida, including the Florida Keys. No impacts are expected alongshore southwest Florida today through Sunday, July 24.

## Analysis

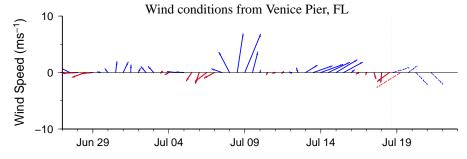
There is currently no indication of a harmful algal bloom in southwest Florida, including the Florida Keys. Background concentrations of *Karenia brevis* were identified in a single sample collected in northern Charlotte County (FWRI, 7/12), and background to 'very low' *K. brevis* concentrations were identified in 3 samples collected alongshore and inshore northern Sarasota County (MML, SCHD, FWRI; 7/11-12). *K. brevis* was not identified in water samples collected elsewhere last week alongshore Pinellas to Collier counties or offshore northern Sarasota County and the Florida Keys (FWRI, MML, SCHD; 7/9-15).

MODIS imagery has been primarily obscured by clouds north of Charlotte County; no features indicative of a harmful bloom were visible between Pinellas and Sarasota counties on 7/15. Recent imagery (7/17) indicates a patch of elevated chlorophyll (4-9 $\mu$ g/L) alongshore Cayo Costa in northern Lee County, extending ~3-4 miles offshore. Slightly elevated chlorophyll (~2 $\mu$ g/L) is also visible ~10 miles offshore northern Collier County (centralized at 26°15'N 82°1'39"W). Chlorophyll visible in imagery on 7/15 may continue to be elevated to high (6 to >10  $\mu$ g/L) alongshore Collier County, however clouds currently obscure imagery at the coast in this region. Elevated chlorophyll features visible at and near the coast are likely the result of non-toxic algal blooms that continue to be reported in several southwest Florida counties, including Lee and Collier counties (FWRI, 7/11-13).

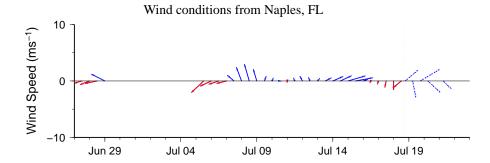
Lee County Health Department continues to issue warnings to avoid contact with the Caloosahatchee River and other fresh water systems due to the presence of potentially harmful Cyanobacteria concentrations (LCHD, 7/18).

Harmful algal bloom formation is not expected at the coast through Sunday, July 24.

-Fisher, Yang



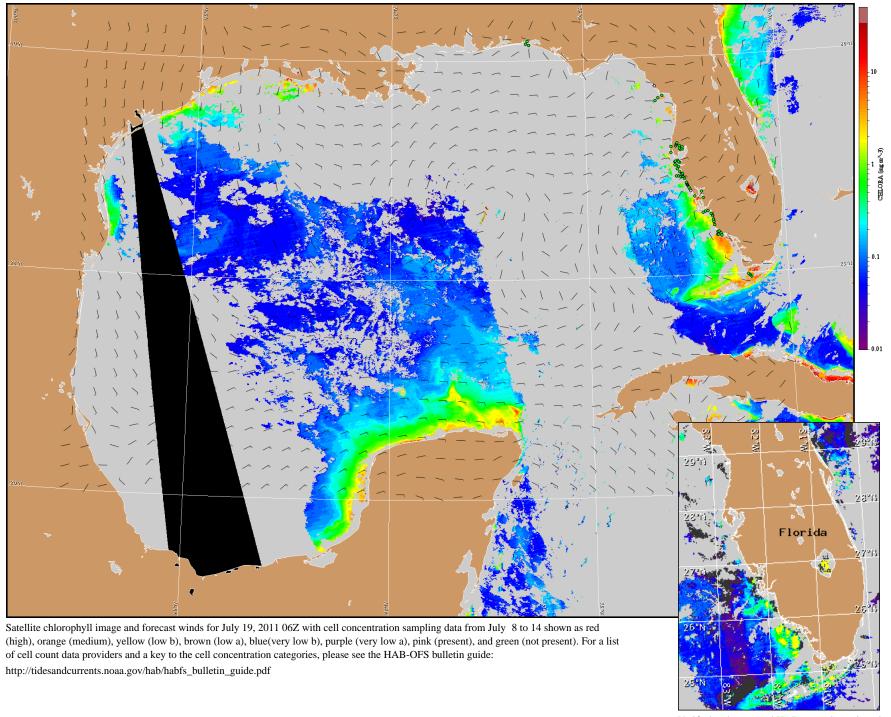
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).



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## Wind Analysis

**Southwest Florida**: North winds (10kn, 5m/s) today becoming east tonight. Northeast winds (5kn, 3m/s) Tuesday, becoming northwest (10kn) in the afternoon. North to northeast winds (5kn) Tuesday night. West winds Wednesday through Friday (5-10kn), shifting northwest during the nights.



Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).